

Basic Principles of Condylography - Volume 1

Workbook Condyl including Practical Instructions
 Curriculum Functional Oral Rehabilitation in Interdisciplinary Dentistry

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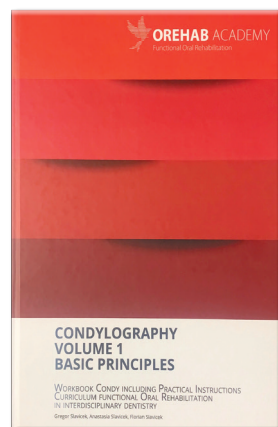
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Books Review

The temporomandibular joint (TMJ) and mandibular movements are fundamental for essential oral functions such as biting, chewing, swallowing, and speaking—directly influencing quality of life. According to the American Academy of Orofacial Pain, approximately 75% of the U.S. population experiences temporomandibular disorders (TMDs) at some point, with 5–10% requiring clinical intervention. These conditions generate an annual financial burden exceeding \$2 billion for the U.S. healthcare system.

In dentistry, precise measurement of TMJ movement is critical for evaluating mandibular function, diagnosing dysfunctions, guiding occlusal therapy (e.g., splint design), assessing implant and prosthesis performance, and monitoring outcomes after TMJ surgery. Among the techniques available, condylography stands out as a non-invasive method that records and analyzes TMJ function, producing digital data and tracings used for articulator programming and treatment planning.

Basic Principles of Condylography – Volume 1, authored by Prof. Gregor Slavicek and colleagues, offers the first systematic manual and workbook dedicated to condylography. The content is structured into five chapters, providing both foundational knowledge and clinical application. The book is based on the occlusal and functional concepts of Prof. Rudolf Slavicek and emphasizes the transfer of condylographic data to the functional determinants of occlusion.

- **Chapter 1: The Fundamentals of Condylography** highlights how TMJ parameters influence oral rehabilitation, including mandibular movements, hinge axis orientation, and clinical functional analysis.

- **Chapter 2: Functional Anatomy and Biomechanics of the TMJ** explores joint classifications, the anatomy of the TMJ, masticatory muscles, craniomandibular dysfunction, and the diagnostic value of condylography.

- **Chapter 3: Recording of Hinge-Axis Movements** explains the principles and standard protocols for accurate data capture, covering system geometry and recording standardization.

- **Chapter 4: Fundamentals of Condylographic Analysis** presents systematic methods for interpreting tracings, focusing on patterns, joint sounds, and relevant clinical signals.

- **Chapter 5: Condylographic Terminology** compiles key concepts and descriptors such as movement quantity, quality, excursion patterns, asymmetry, and specific findings.

This volume serves as an essential reference for clinicians and dental students alike, promoting precise communication and interdisciplinary collaboration in the diagnosis and management of TMJ-related conditions.

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